

AMENDMENT

Amendments to the Specification:

Following the abstract, please insert the attached Sequence Listing with subsequent page numbering thereafter.

Please replace full paragraph at page 7, line 31 bridging to page 8, line 2 with the following amended paragraph:

Figure 2A shows a sequence alignment of A β 1-42 denoting differences between the human (SEQ ID NO:5) and mouse (SEQ ID NO:6) protein sequences (bolded amino acids). The cleavage sites corresponding to BACE1, α and γ secretases are marked and numbered. The asterisk indicate the start of the transmembrane domain.

Please replace full paragraph at page 52 (lines 18 to 25) with the following amended paragraph:

BACE anti-peptide and anti-fusion protein antibodies were generated in rabbits. A synthesized peptide corresponding to the C-terminal 12 residues of mouse BACE coupled to KLH was used to make the anti-peptide antibody (Research Genetics, Huntsville, AL). To generate the HIS₆-BACE fusion protein (SEQ ID NO:4), a DNA fragment corresponding to residues 46 to 163 of BACE was subcloned into pTrcHisA (Invitrogen, San Diego, CA). The HIS₆-BACE fusion protein (SEQ ID NO:4) purified by Talon Metal Affinity Resin (Clontech, Palo Alto, CA) chromatography was used as antigen for making the anti-fusion protein antibody (Covance Research Products Inc., Denver, PA).